ACCESS DB # 160348

FOR OFFICIAL USE ONLY *PLEASE PRINT CLEARLY*

Scientific and Technical Information Center

SEARCH REQUEST FORM

Requester's Full Name: MARK BERCH Examiner # : 59193 Date: 2/25/05
Art Unit: 1624 Phone Number: 2-0663 Serial Number: 10688538
Location (Bldg/Room#): 5C01 (Mailbox #): 5C18 Results Format Preferred (circle): (PAPER) DISK

****

To ensure an efficient and quality search, please attach a copy of the cover sheet, claims, and abstract or fill out the following:

Title of Invention: _____

Inventors (please provide full names): _____

_____

Earliest Priority Date: _____

Search Topic:
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc., if known.

For Sequence Searches Only *Please include all pertinent information (parent, child, divisional; or issued patent numbers) along with the appropriate serial number.*

Process of removing ethanol
methanol
or
propanol
or
isopropanol
from something, e.g. a drug
by ~~PASSING~~ treatment with humid gas
some type of humid air

****

STAFF USE ONLY

Searcher: _____
Searcher Phone #: _____
Searcher Location: _____
Date Searcher Picked Up: _____
Date Completed: _____
Searcher Prep & Review Time: _____
Online Time: _____

Type of Search

_____ NA Sequence (#)
_____ AA Sequence (#)
_____ Structure (#)
_____ Bibliographic
_____ Litigation
_____ Fulltext
_____ Other

Vendors and cost where applicable

_____ STN _____ Dialog
_____ Questel/Orbit _____ Lexis/Nexis
_____ Westlaw _____ WWW/Internet
____ In-house sequence systems
__ Commercial ___ Oligomer ___ Score/Length
__ Interference ___ SPDI ___ Encode/Transl
_____ Other (specify)

```
=> d que l58
L3      1261035 SEA FILE=HCAPLUS ABB=ON  PLU=ON  ALCOHOLS+PFT,NT1/CT
L4         8982 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L3 (L) REM/RL
L5              QUE  ABB=ON  PLU=ON  ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR
                 METHANOL OR PROPANOL OR ISOPROPANOL
L12             QUE  ABB=ON  PLU=ON  AIR OR GAS OR MIST OR VAPOR
L15             QUE  ABB=ON  PLU=ON  HUMID? OR MOIST? OR DAMP?
L40           92 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L4 (L) ?CRYSTAL?
L41           45 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L40 AND (TOXICOLOGY OR
                 RADIATION OR "AMINO ACIDS" OR BIOMOLECULES OR BENZENOID OR
                 HETEROCYCLIC OR PHARM? OR "UNIT OPERATIONS" OR TERPENES OR
                 PLASTICS)/SC
L42            4 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L40 AND (IOHEXOL OR CAROTENOID
                 )/TI
L43            7 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L40 AND UNIT/SC
L44            2 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L40 AND AMINO/SC
L45           56 SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L41 OR L42 OR L43 OR L44)
L46           10 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L45 AND DRYING/CT
L48            2 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L46 AND L12
L49            1 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L48 AND PHARM?/SC
L50            6 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L45 AND (L15 OR (WATER(1W)VAPO
                 R))
L51            4 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L50 NOT L48
L54          154 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L5 (1W) DISPLAC?
L55          186 SEA FILE=HCAPLUS ABB=ON  PLU=ON  DISPLAC? (2W) L5
L56            9 SEA FILE=HCAPLUS ABB=ON  PLU=ON  ((L54 OR L55)) (5A) (L12 OR
                 L15)
L57            2 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L56 AND (EXPLOSIVES OR
                 COATINGS)/SC
L58            7 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L49 OR L51 OR L57


=> d que l68
L59        19238 SEA FILE=WPIX ABB=ON  PLU=ON  (B01D001? OR B01D012? OR
                 F26B003? OR F26B005?)/IPC
L60        11596 SEA FILE=WPIX ABB=ON  PLU=ON  (?ALCOHOL?/BIX OR ?ALKANOL?/BIX
                 OR ETHANOL/BIX OR METHANOL/BIX OR PROPANOL/BIX OR ISOPROPANOL/B
                 IX) (3A) (REMOV? OR DISPLAC? OR DISPERS?)/BIX
L63          501 SEA FILE=WPIX ABB=ON  PLU=ON  L60 (7A) ((AIR/BIX OR GAS/BIX OR
                 MIST/BIX OR VAPOR/BIX) OR WET/BIX OR (WATER(1W)(VAPOR OR
                 VAPOUR))/BIX)
L64            6 SEA FILE=WPIX ABB=ON  PLU=ON  L59 AND L63
L65            1 SEA FILE=WPIX ABB=ON  PLU=ON  L64 AND (DRIED(1W)FOOD)/TI
L66           10 SEA FILE=WPIX ABB=ON  PLU=ON  L63 (10A) ?CRYSTAL?/BIX
L67            2 SEA FILE=WPIX ABB=ON  PLU=ON  L66 AND (DISTANNOXANE OR
                 CEFAMANDOLE)/TI
L68            3 SEA FILE=WPIX ABB=ON  PLU=ON  L65 OR L67


=> d his l74

     (FILE 'MEDLINE, BIOSIS, PASCAL, JICST-EPLUS, CANCERLIT, DRUGU, DRUGB,
     SCISEARCH' ENTERED AT 16:11:14 ON 18 AUG 2005)
L74            2 S L72 AND L73
                 SAVE TEMP L74 BER538MUL1/A

     FILE 'STNGUIDE' ENTERED AT 16:19:47 ON 18 AUG 2005

=> d que l74
L5              QUE  ABB=ON  PLU=ON  ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR
```

```
                METHANOL OR PROPANOL OR ISOPROPANOL
L15             QUE  ABB=ON  PLU=ON  HUMID? OR MOIST? OR DAMP?
L69        1114 SEA L5 (1W) (REMOV? OR DISPLAC?)
L70        1340 SEA (REMOV? OR DISPLAC?) (2W) L5
L71          44 SEA (L69 OR L70) (7A) (L15 OR AIR OR (WATER (1W) (VAPOR OR
                VAPOUR)) OR STEAM)
L72          23 DUP REM L71 (21 DUPLICATES REMOVED)
L73           3 SEA L71 (15A) (POWDER OR SOLID OR GRAIN? OR ?GRANUL? OR
                ?PARTICL? OR ?PARTICULAT? OR ?CRYSTAL?)
L74           2 SEA L72 AND L73

=> d his ful

     (FILE 'HOME' ENTERED AT 13:02:30 ON 18 AUG 2005)

     FILE 'HCAPLUS' ENTERED AT 13:02:42 ON 18 AUG 2005
L1             1 SEA ABB=ON  PLU=ON  US2003-688538/APPS
                 SAVE TEMP L1 BER538HCAAPP/A
                 D IBIB ED AB IND

     FILE 'STNGUIDE' ENTERED AT 13:03:28 ON 18 AUG 2005

     FILE 'WPIX' ENTERED AT 13:04:49 ON 18 AUG 2005
L2             1 SEA ABB=ON  PLU=ON  US2003-688538/APPS
                 SAVE TEMP L2 BER538WPIAPP/A
                 D IALL

     FILE 'STNGUIDE' ENTERED AT 13:05:17 ON 18 AUG 2005

     FILE 'HCAPLUS' ENTERED AT 13:07:45 ON 18 AUG 2005
L3       1261035 SEA ABB=ON  PLU=ON  ALCOHOLS+PFT,NT1/CT
L4          8982 SEA ABB=ON  PLU=ON  L3 (L) REM/RL

     FILE 'STNGUIDE' ENTERED AT 13:08:57 ON 18 AUG 2005

     FILE 'HCAPLUS' ENTERED AT 13:11:02 ON 18 AUG 2005
L5              QUE ABB=ON  PLU=ON  ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR
                METHANOL OR PROPANOL OR ISOPROPANOL
L6              QUE ABB=ON  PLU=ON  ETHANOL OR METHANOL OR PROPANOL OR
                ISOPROPANOL
L7              QUE ABB=ON  PLU=ON  ?HUMID? OR ?MOIST? OR DAMP?
L8              QUE ABB=ON  PLU=ON  AIR OR GAS OR MIST

     FILE 'STNGUIDE' ENTERED AT 13:12:08 ON 18 AUG 2005

     FILE 'HCAPLUS' ENTERED AT 13:12:57 ON 18 AUG 2005
L9           49166 SEA ABB=ON  PLU=ON  AIR+PFT/CT
L10            613 SEA ABB=ON  PLU=ON  L9 (L) L7
L11              4 SEA ABB=ON  PLU=ON  L10 (L) L5
L12              QUE ABB=ON  PLU=ON  AIR OR GAS OR MIST OR VAPOR
L13            725 SEA ABB=ON  PLU=ON  L9 (L) L5
L14              4 SEA ABB=ON  PLU=ON  L10 AND L13
                 D SCAN

     FILE 'STNGUIDE' ENTERED AT 13:14:47 ON 18 AUG 2005
                 D QUE L7

     FILE 'HCAPLUS' ENTERED AT 13:16:03 ON 18 AUG 2005
L15             QUE ABB=ON  PLU=ON  HUMID? OR MOIST? OR DAMP?
```

```
L16             QUE ABB=ON  PLU=ON  REMOV? OR REDUCE OR REDUCING OR REDUCTION
L17       35270 SEA ABB=ON  PLU=ON  L5 (5A) L16
L18       17073 SEA ABB=ON  PLU=ON  L5 (5A) REMOV?
L19       13270 SEA ABB=ON  PLU=ON  L5 (3A) REMOV?

     FILE 'STNGUIDE' ENTERED AT 13:18:13 ON 18 AUG 2005

     FILE 'HCAPLUS' ENTERED AT 13:19:00 ON 18 AUG 2005
L20       16859 SEA ABB=ON  PLU=ON  HUMIDITY+PFT/CT
L21         105 SEA ABB=ON  PLU=ON  L20 (L) L5

     FILE 'STNGUIDE' ENTERED AT 13:19:46 ON 18 AUG 2005

     FILE 'HCAPLUS' ENTERED AT 13:20:24 ON 18 AUG 2005
L22         560 SEA ABB=ON  PLU=ON  L9 (L) L15
L23           7 SEA ABB=ON  PLU=ON  (L4 OR L19) AND (L21 OR L22)
                D SCAN

     FILE 'STNGUIDE' ENTERED AT 13:20:55 ON 18 AUG 2005

     FILE 'HCAPLUS' ENTERED AT 13:23:28 ON 18 AUG 2005
L24           5 SEA ABB=ON  PLU=ON  L23 NOT (BIOREACTOR OR COMPOST)/TI

     FILE 'STNGUIDE' ENTERED AT 13:23:48 ON 18 AUG 2005
                D QUE L22
                D QUE L21
                D QUE L19

     FILE 'HCAPLUS' ENTERED AT 13:24:56 ON 18 AUG 2005
L25         999 SEA ABB=ON  PLU=ON  L19 (7A) (L15 OR L12)

     FILE 'STNGUIDE' ENTERED AT 13:26:09 ON 18 AUG 2005

     FILE 'HCAPLUS' ENTERED AT 13:28:33 ON 18 AUG 2005
L26        8971 SEA ABB=ON  PLU=ON  L5(1W)L16
L27        5404 SEA ABB=ON  PLU=ON  L5 (1W) REMOV?
L*** DEL    624 S REMOV? (2W) L
L28        4491 SEA ABB=ON  PLU=ON  REMOV? (2W) L5
L29         582 SEA ABB=ON  PLU=ON  (L27 OR L28) (5A) (L15 OR L12)
L30           8 SEA ABB=ON  PLU=ON  L29 AND PHARM?/SX,SC
                D SCAN

     FILE 'STNGUIDE' ENTERED AT 13:31:38 ON 18 AUG 2005

     FILE 'HCAPLUS' ENTERED AT 13:32:16 ON 18 AUG 2005
L31          29 SEA ABB=ON  PLU=ON  (L27 OR L28) (5A) L15
                D SCAN

     FILE 'STNGUIDE' ENTERED AT 13:32:47 ON 18 AUG 2005
L*** DEL      0 S L24 AND L31

     FILE 'HCAPLUS' ENTERED AT 13:35:09 ON 18 AUG 2005
L32           2 SEA ABB=ON  PLU=ON  L24 AND L31
                D SCAN

     FILE 'STNGUIDE' ENTERED AT 13:35:28 ON 18 AUG 2005

     FILE 'HCAPLUS' ENTERED AT 13:35:40 ON 18 AUG 2005
                D KWIC L24 1-5
```

```
     FILE 'STNGUIDE' ENTERED AT 13:36:03 ON 18 AUG 2005

     FILE 'HCAPLUS' ENTERED AT 13:37:07 ON 18 AUG 2005
               SAVE TEMP L24 BER538HCA1/A

     FILE 'STNGUIDE' ENTERED AT 13:37:21 ON 18 AUG 2005
               D SAVED

     FILE 'ZCAPLUS' ENTERED AT 13:40:26 ON 18 AUG 2005
               E CRYSTAL/CT
               E CRYSTALS/CT
               E E15+ALL
               E SOLVENTS/CT
               E E68+ALL
               E E87+ALL
               E E102+ALL
               E E114+ALL

     FILE 'HCAPLUS' ENTERED AT 13:43:57 ON 18 AUG 2005
L33          543 SEA ABB=ON  PLU=ON  DESOLVATION+PFT/CT
L34        19566 SEA ABB=ON  PLU=ON  EVAPORATION+PFT/CT
L35        28702 SEA ABB=ON  PLU=ON  VAPORIZATION+PFT/CT

     FILE 'ZCAPLUS' ENTERED AT 13:44:44 ON 18 AUG 2005
               E VAPORIZATION/CT
               E E147+ALL

     FILE 'HCAPLUS' ENTERED AT 13:45:06 ON 18 AUG 2005
L36            0 SEA ABB=ON  PLU=ON  ALBATION+PFT/CT
L37          271 SEA ABB=ON  PLU=ON  (L33 OR L34 OR L35 OR L36) (L) L5
L38          131 SEA ABB=ON  PLU=ON  (L33 OR L34 OR L35 OR L36) (L) L15
L39            2 SEA ABB=ON  PLU=ON  L37 AND L38
                 D SCAN
                 D QUE L4
L40           92 SEA ABB=ON  PLU=ON  L4 (L) ?CRYSTAL?
                 D SCAN

     FILE 'STNGUIDE' ENTERED AT 13:49:42 ON 18 AUG 2005

     FILE 'HCAPLUS' ENTERED AT 14:42:55 ON 18 AUG 2005
L41           45 SEA ABB=ON  PLU=ON  L40 AND (TOXICOLOGY OR RADIATION OR "AMINO
                 ACIDS" OR BIOMOLECULES OR BENZENOID OR HETEROCYCLIC OR PHARM?
                 OR "UNIT OPERATIONS" OR TERPENES OR PLASTICS)/SC
L42            4 SEA ABB=ON  PLU=ON  L40 AND (IOHEXOL OR CAROTENOID)/TI
L43            7 SEA ABB=ON  PLU=ON  L40 AND UNIT/SC
L44            2 SEA ABB=ON  PLU=ON  L40 AND AMINO/SC
L45           56 SEA ABB=ON  PLU=ON  (L41 OR L42 OR L43 OR L44)
                 SAVE TEMP L45 BER538HCAP2/A

     FILE 'STNGUIDE' ENTERED AT 14:44:49 ON 18 AUG 2005
               D SAVED

     FILE 'HCAPLUS' ENTERED AT 14:49:47 ON 18 AUG 2005
L46           10 SEA ABB=ON  PLU=ON  L45 AND DRYING/CT
                 D SCAN
L47            0 SEA ABB=ON  PLU=ON  L46 AND L15
L48            2 SEA ABB=ON  PLU=ON  L46 AND L12
                 D SCAN
                 D KWIC 1-2
L49            1 SEA ABB=ON  PLU=ON  L48 AND PHARM?/SC
```

```
L50           6 SEA ABB=ON  PLU=ON  L45 AND (L15 OR (WATER(1W)VAPOR))
L51           4 SEA ABB=ON  PLU=ON  L50 NOT L48
                D SCAN

     FILE 'STNGUIDE' ENTERED AT 14:53:37 ON 18 AUG 2005
                D QUE L51

     FILE 'HCAPLUS' ENTERED AT 15:35:10 ON 18 AUG 2005
                D KWIC L51 1-4

     FILE 'STNGUIDE' ENTERED AT 15:35:10 ON 18 AUG 2005

     FILE 'STNGUIDE' ENTERED AT 15:35:15 ON 18 AUG 2005

     FILE 'HCAPLUS' ENTERED AT 15:35:53 ON 18 AUG 2005
L52         511 SEA ABB=ON  PLU=ON  L5 (3A) DISPLAC?
L53          15 SEA ABB=ON  PLU=ON  L52 (5A) (L12 OR L15)
                D SCAN TI HIT

     FILE 'STNGUIDE' ENTERED AT 15:37:30 ON 18 AUG 2005

     FILE 'HCAPLUS' ENTERED AT 15:38:12 ON 18 AUG 2005
L54         154 SEA ABB=ON  PLU=ON  L5 (1W) DISPLAC?
L55         186 SEA ABB=ON  PLU=ON  DISPLAC? (2W) L5
L56           9 SEA ABB=ON  PLU=ON  ((L54 OR L55)) (5A) (L12 OR L15)
                D SCAN

     FILE 'STNGUIDE' ENTERED AT 15:39:49 ON 18 AUG 2005

     FILE 'HCAPLUS' ENTERED AT 15:40:42 ON 18 AUG 2005
L57           2 SEA ABB=ON  PLU=ON  L56 AND (EXPLOSIVES OR COATINGS)/SC
                D KWIC 1-2

     FILE 'STNGUIDE' ENTERED AT 15:41:02 ON 18 AUG 2005

     FILE 'HCAPLUS' ENTERED AT 15:41:26 ON 18 AUG 2005
L58           7 SEA ABB=ON  PLU=ON  L49 OR L51 OR L57
                SAVE TEMP L58 BER538HCAK1/A

     FILE 'STNGUIDE' ENTERED AT 15:42:03 ON 18 AUG 2005
                D SAVED
                D SAVED
                D COST

     FILE 'HCAPLUS' ENTERED AT 15:45:16 ON 18 AUG 2005
                D SCAN L58

     FILE 'STNGUIDE' ENTERED AT 15:45:32 ON 18 AUG 2005

     FILE 'WPIX' ENTERED AT 15:50:43 ON 18 AUG 2005
L59       19238 SEA ABB=ON  PLU=ON  (B01D001? OR B01D012? OR F26B003? OR
                F26B005?)/IPC
L60       11596 SEA ABB=ON  PLU=ON  (?ALCOHOL?/BIX OR ?ALKANOL?/BIX OR
                ETHANOL/BIX OR METHANOL/BIX OR PROPANOL/BIX OR ISOPROPANOL/BIX)
                 (3A) (REMOV? OR DISPLAC? OR DISPERS?)/BIX
L61        7924 SEA ABB=ON  PLU=ON  L60 (7A) ((AIR/BIX OR GAS/BIX OR MIST/BIX
                OR VAPOR/BIX) OR (REMOV?/BIX OR REDUCE/BIX OR REDUCING/BIX OR
                REDUCTION/BIX))
L62          40 SEA ABB=ON  PLU=ON  L61 AND L59
                D TRI 1-40
```

```
     FILE 'STNGUIDE' ENTERED AT 15:54:30 ON 18 AUG 2005

     FILE 'WPIX' ENTERED AT 15:55:22 ON 18 AUG 2005
L63         501 SEA ABB=ON  PLU=ON  L60 (7A) ((AIR/BIX OR GAS/BIX OR MIST/BIX
                OR VAPOR/BIX) OR WET/BIX OR (WATER(1W)(VAPOR OR VAPOUR))/BIX)
L64           6 SEA ABB=ON  PLU=ON  L59 AND L63
                D TRI 1-6

     FILE 'STNGUIDE' ENTERED AT 15:57:32 ON 18 AUG 2005

     FILE 'WPIX' ENTERED AT 15:58:20 ON 18 AUG 2005
                D KWIC 1-6

     FILE 'STNGUIDE' ENTERED AT 15:58:23 ON 18 AUG 2005

     FILE 'STNGUIDE' ENTERED AT 15:58:26 ON 18 AUG 2005

     FILE 'WPIX' ENTERED AT 16:01:06 ON 18 AUG 2005
L65           1 SEA ABB=ON  PLU=ON  L64 AND (DRIED(1W)FOOD)/TI

     FILE 'STNGUIDE' ENTERED AT 16:01:46 ON 18 AUG 2005

     FILE 'WPIX' ENTERED AT 16:02:15 ON 18 AUG 2005
                D MC L65

     FILE 'STNGUIDE' ENTERED AT 16:02:16 ON 18 AUG 2005

     FILE 'WPIX' ENTERED AT 16:02:53 ON 18 AUG 2005
L66          10 SEA ABB=ON  PLU=ON  L63 (10A) ?CRYSTAL?/BIX
                D TRI 1-10

     FILE 'STNGUIDE' ENTERED AT 16:03:50 ON 18 AUG 2005

     FILE 'WPIX' ENTERED AT 16:06:36 ON 18 AUG 2005
                D KWIC L66 2,4,7,9,10

     FILE 'STNGUIDE' ENTERED AT 16:06:37 ON 18 AUG 2005

     FILE 'WPIX' ENTERED AT 16:08:09 ON 18 AUG 2005
                D TRI 4,10
L67           2 SEA ABB=ON  PLU=ON  L66 AND (DISTANNOXANE OR CEFAMANDOLE)/TI
L68           3 SEA ABB=ON  PLU=ON  L65 OR L67
                SAVE TEMP L68 BER538WPIK1/A

     FILE 'STNGUIDE' ENTERED AT 16:09:40 ON 18 AUG 2005
                D SAVED

     FILE 'MEDLINE, BIOSIS, PASCAL, JICST-EPLUS, CANCERLIT, DRUGU, DRUGB,
     SCISEARCH' ENTERED AT 16:11:14 ON 18 AUG 2005
L69        1114 SEA ABB=ON  PLU=ON  L5 (1W) (REMOV? OR DISPLAC?)
L70        1340 SEA ABB=ON  PLU=ON  (REMOV? OR DISPLAC?) (2W) L5
L71          44 SEA ABB=ON  PLU=ON  (L69 OR L70) (7A) (L15 OR AIR OR (WATER
                (1W) (VAPOR OR VAPOUR)) OR STEAM)
L72          23 DUP REM L71 (21 DUPLICATES REMOVED)
                     ANSWERS '1-5' FROM FILE MEDLINE
                     ANSWERS '6-10' FROM FILE BIOSIS
                     ANSWERS '11-16' FROM FILE PASCAL
                     ANSWERS '17-19' FROM FILE JICST-EPLUS
                     ANSWERS '20-23' FROM FILE SCISEARCH
```

```
              D SCAN
L73           3 SEA ABB=ON  PLU=ON  L71 (15A) (POWDER OR SOLID OR GRAIN? OR
                ?GRANUL? OR ?PARTICL? OR ?PARTICULAT? OR ?CRYSTAL?)
L74           2 SEA ABB=ON  PLU=ON  L72 AND L73
              D KWIC 1-2
              D SCAN
              SAVE TEMP L74 BER538MUL1/A
              D SAVED

FILE 'STNGUIDE' ENTERED AT 16:19:47 ON 18 AUG 2005
              D QUE L58
              D QUE L68
              D QUE L74


FILE HOME

FILE HCAPLUS

Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
the American Chemical Society and is provided to assist you in searching
databases on STN.  Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS, is
strictly prohibited.

FILE COVERS 1907 - 18 Aug 2005  VOL 143 ISS 8
FILE LAST UPDATED: 17 Aug 2005  (20050817/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

FILE STNGUIDE
FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Aug 12, 2005 (20050812/UP).

FILE WPIX
FILE LAST UPDATED:          15 AUG 2005      <20050815/UP>
MOST RECENT DERWENT UPDATE:     200552        <200552/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,
    PLEASE VISIT:
 http://www.stn-international.de/training_center/patents/stn_guide.pdf <<<

>>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE
    http://thomsonderwent.com/coverage/latestupdates/           <<<

>>> FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER
    GUIDES, PLEASE VISIT:
    http://thomsonderwent.com/support/userguides/               <<<

>>> NEW! FAST-ALERTING ACCESS TO NEWLY-PUBLISHED PATENT
    DOCUMENTATION NOW AVAILABLE IN DERWENT WORLD PATENTS INDEX
    FIRST VIEW - FILE WPIFV.
```

FOR FURTHER DETAILS: http://www.thomsonderwent.com/dwpifv <<<

>>> THE CPI AND EPI MANUAL CODES HAVE BEEN REVISED FROM UPDATE 200501.
PLEASE CHECK:
http://thomsonderwent.com/support/dwpiref/reftools/classification/code-rev
FOR DETAILS. <<<

FILE ZCAPLUS

FILE COVERS 1907 - 18 Aug 2005 VOL 143 ISS 8
FILE LAST UPDATED: 17 Aug 2005 (20050817/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE MEDLINE
FILE LAST UPDATED: 17 AUG 2005 (20050817/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP RLOAD at an arrow promt (=>). See also:

http://www.nlm.nih.gov/mesh/
http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE BIOSIS
FILE COVERS 1969 TO DATE.
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 17 August 2005 (20050817/ED)

FILE RELOADED: 19 October 2003.

FILE PASCAL
FILE LAST UPDATED: 15 AUG 2005 <20050815/UP>
FILE COVERS 1977 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION IS AVAILABLE

IN THE BASIC INDEX (/BI) FIELD <<<

FILE JICST-EPLUS
FILE COVERS 1985 TO 15 AUG 2005 (20050815/ED)

THE JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED TERM (/CT) THESAURUS RELOAD.

FILE CANCERLIT
FILE COVERS 1963 TO 15 Nov 2002 (20021115/ED)

On July 28, 2002, CANCERLIT was reloaded. See HELP RLOAD for details.

CANCERLIT thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2002 vocabulary. Enter HELP THESAURUS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE DRUGU
FILE LAST UPDATED: 17 AUG 2005 <20050817/UP>
>>> DERWENT DRUG FILE (SUBSCRIBER) <<<

>>> FILE COVERS 1983 TO DATE <<<
>>> THESAURUS AVAILABLE IN /CT <<<

FILE DRUGB
>>> FILE COVERS 1964 TO 1982 - CLOSED FILE <<<

FILE SCISEARCH

FILE COVERS 1974 TO 11 Aug 2005 (20050811/ED)

SCISEARCH has been reloaded, see HELP RLOAD for details.

```
=> => d que l21
L1  (   1261035)SEA FILE=HCAPLUS ABB=ON  PLU=ON  ALCOHOLS+PFT,NT1/CT
L2  (      8982)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L1 (L) REM/RL
L3              QUE  ABB=ON  PLU=ON  ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR
                 METHANOL OR PROPANOL OR ISOPROPANOL
L4              QUE  ABB=ON  PLU=ON  AIR OR GAS OR MIST OR VAPOR
L5              QUE  ABB=ON  PLU=ON  HUMID? OR MOIST? OR DAMP?
L6  (        92)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L2 (L) ?CRYSTAL?
L7  (        45)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 AND (TOXICOLOGY OR
                RADIATION OR "AMINO ACIDS" OR BIOMOLECULES OR BENZENOID OR
                HETEROCYCLIC OR PHARM? OR "UNIT OPERATIONS" OR TERPENES OR
                PLASTICS)/SC
L8  (         4)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 AND (IOHEXOL OR CAROTENOID)
                /TI
L9  (         7)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 AND UNIT/SC
L10 (         2)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 AND AMINO/SC
L11 (        56)SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L7 OR L8 OR L9 OR L10)
L12 (        10)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L11 AND DRYING/CT
L13 (         2)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L12 AND L4
L14 (         1)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L13 AND PHARM?/SC
L15 (         6)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L11 AND (L5 OR (WATER(1W)VAPOR
                ))
L16 (         4)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L15 NOT L13
L17 (       154)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L3 (1W) DISPLAC?
```

```
L18 (       186)SEA FILE=HCAPLUS ABB=ON  PLU=ON  DISPLAC? (2W) L3
L19 (         9)SEA FILE=HCAPLUS ABB=ON  PLU=ON  ((L17 OR L18)) (5A) (L4 OR
                L5)
L20 (         2)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L19 AND (EXPLOSIVES OR
                COATINGS)/SC
L21           7 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L14 OR L16 OR L20


=> d que l29
L22 (     19238)SEA FILE=WPIX ABB=ON  PLU=ON  (B01D001? OR B01D012? OR
                F26B003? OR F26B005?)/IPC
L23 (     11596)SEA FILE=WPIX ABB=ON  PLU=ON  (?ALCOHOL?/BIX OR ?ALKANOL?/BIX
                OR ETHANOL/BIX OR METHANOL/BIX OR PROPANOL/BIX OR ISOPROPANOL/B
                IX) (3A) (REMOV? OR DISPLAC? OR DISPERS?)/BIX
L24 (       501)SEA FILE=WPIX ABB=ON  PLU=ON  L23 (7A) ((AIR/BIX OR GAS/BIX OR
                MIST/BIX OR VAPOR/BIX) OR WET/BIX OR (WATER(1W)(VAPOR OR
                VAPOUR))/BIX)
L25 (         6)SEA FILE=WPIX ABB=ON  PLU=ON  L22 AND L24
L26 (         1)SEA FILE=WPIX ABB=ON  PLU=ON  L25 AND (DRIED(1W)FOOD)/TI
L27 (        10)SEA FILE=WPIX ABB=ON  PLU=ON  L24 (10A) ?CRYSTAL?/BIX
L28 (         2)SEA FILE=WPIX ABB=ON  PLU=ON  L27 AND (DISTANNOXANE OR
                CEFAMANDOLE)/TI
L29           3 SEA FILE=WPIX ABB=ON  PLU=ON  L26 OR L28


=> d que l53
L30             QUE  ABB=ON  PLU=ON  ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR
                 METHANOL OR PROPANOL OR ISOPROPANOL
L31             QUE  ABB=ON  PLU=ON  HUMID? OR MOIST? OR DAMP?
L32 (      1114)SEA L30 (1W) (REMOV? OR DISPLAC?)
L33 (      1340)SEA (REMOV? OR DISPLAC?) (2W) L30
L34 (        44)SEA (L32 OR L33) (7A) (L31 OR AIR OR (WATER (1W) (VAPOR OR
                VAPOUR)) OR STEAM)
L35 (        23)DUP REM L34 (21 DUPLICATES REMOVED)
L36 (         3)SEA L34 (15A) (POWDER OR SOLID OR GRAIN? OR ?GRANUL? OR
                ?PARTICL? OR ?PARTICULAT? OR ?CRYSTAL?)
L37 (         5)SEA FILE=MEDLINE L35
L38 (         0)SEA FILE=MEDLINE L37 AND L36
L39 (         5)SEA FILE=BIOSIS L35
L40 (         0)SEA FILE=BIOSIS L39 AND L36
L41 (         6)SEA FILE=PASCAL L35
L42           1 SEA FILE=PASCAL L41 AND L36
L43 (         3)SEA FILE=JICST-EPLUS L35
L44 (         0)SEA FILE=JICST-EPLUS L43 AND L36
L45 (         0)SEA FILE=CANCERLIT L35
L46 (         0)SEA FILE=CANCERLIT L45 AND L36
L47 (         0)SEA FILE=DRUGU L35
L48 (         0)SEA FILE=DRUGU L47 AND L36
L49 (         0)SEA FILE=DRUGB L35
L50 (         0)SEA FILE=DRUGB L49 AND L36
L51 (         4)SEA FILE=SCISEARCH L35
L52           1 SEA FILE=SCISEARCH L51 AND L36
L53           2 SEA L35 AND L36


=> d his ful
```

(FILE 'HOME' ENTERED AT 07:49:54 ON 22 AUG 2005)

FILE 'HCAPLUS' ENTERED AT 07:50:04 ON 22 AUG 2005

```
                ACT BER538HCAK1/A
                ---------
L1  (   1261035)SEA ABB=ON  PLU=ON  ALCOHOLS+PFT,NT1/CT
L2  (      8982)SEA ABB=ON  PLU=ON  L1 (L) REM/RL
L3              QUE ABB=ON  PLU=ON  ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR
                METHANOL OR PROPANOL OR ISOPROPANOL
L4              QUE ABB=ON  PLU=ON  AIR OR GAS OR MIST OR VAPOR
L5              QUE ABB=ON  PLU=ON  HUMID? OR MOIST? OR DAMP?
L6  (        92)SEA ABB=ON  PLU=ON  L2 (L) ?CRYSTAL?
L7  (        45)SEA ABB=ON  PLU=ON  L6 AND (TOXICOLOGY OR RADIATION OR "AMINO
                ACIDS" OR BIOMOLECULES OR BENZENOID OR HETEROCYCLIC OR PHARM?
                OR "UNIT OPERATIONS" OR TERPENES OR PLASTICS)/SC
L8  (         4)SEA ABB=ON  PLU=ON  L6 AND (IOHEXOL OR CAROTENOID)/TI
L9  (         7)SEA ABB=ON  PLU=ON  L6 AND UNIT/SC
L10 (         2)SEA ABB=ON  PLU=ON  L6 AND AMINO/SC
L11 (        56)SEA ABB=ON  PLU=ON  (L7 OR L8 OR L9 OR L10)
L12 (        10)SEA ABB=ON  PLU=ON  L11 AND DRYING/CT
L13 (         2)SEA ABB=ON  PLU=ON  L12 AND L4
L14 (         1)SEA ABB=ON  PLU=ON  L13 AND PHARM?/SC
L15 (         6)SEA ABB=ON  PLU=ON  L11 AND (L5 OR (WATER(1W)VAPOR))
L16 (         4)SEA ABB=ON  PLU=ON  L15 NOT L13
L17 (       154)SEA ABB=ON  PLU=ON  L3 (1W) DISPLAC?
L18 (       186)SEA ABB=ON  PLU=ON  DISPLAC? (2W) L3
L19 (         9)SEA ABB=ON  PLU=ON  ((L17 OR L18)) (5A) (L4 OR L5)
L20 (         2)SEA ABB=ON  PLU=ON  L19 AND (EXPLOSIVES OR COATINGS)/SC
L21           7 SEA ABB=ON  PLU=ON  L14 OR L16 OR L20
                ---------

     FILE 'WPIX' ENTERED AT 07:50:22 ON 22 AUG 2005
                ACT BER538WPIK1/A
                ---------
L22 (     19238)SEA ABB=ON  PLU=ON  (B01D001? OR B01D012? OR F26B003? OR
                F26B005?)/IPC
L23 (     11596)SEA ABB=ON  PLU=ON  (?ALCOHOL?/BIX OR ?ALKANOL?/BIX OR
                ETHANOL/BIX OR METHANOL/BIX OR PROPANOL/BIX OR ISOPROPANOL/BIX)
                  (3A) (REMOV? OR DISPLAC? OR DISPERS?)/BIX
L24 (       501)SEA ABB=ON  PLU=ON  L23 (7A) ((AIR/BIX OR GAS/BIX OR MIST/BIX
                OR VAPOR/BIX) OR WET/BIX OR (WATER(1W)(VAPOR OR VAPOUR))/BIX)
L25 (         6)SEA ABB=ON  PLU=ON  L22 AND L24
L26 (         1)SEA ABB=ON  PLU=ON  L25 AND (DRIED(1W)FOOD)/TI
L27 (        10)SEA ABB=ON  PLU=ON  L24 (10A) ?CRYSTAL?/BIX
L28 (         2)SEA ABB=ON  PLU=ON  L27 AND (DISTANNOXANE OR CEFAMANDOLE)/TI
L29           3 SEA ABB=ON  PLU=ON  L26 OR L28
                ---------

     FILE 'STNGUIDE' ENTERED AT 07:50:36 ON 22 AUG 2005

     FILE 'MEDLINE, BIOSIS, PASCAL, JICST-EPLUS, CANCERLIT, DRUGU, DRUGB,
     SCISEARCH' ENTERED AT 07:51:07 ON 22 AUG 2005
                ACT BER538MUL1/A
                ---------
L30             QUE ABB=ON  PLU=ON  ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR
                METHANOL OR PROPANOL OR ISOPROPANOL
L31             QUE ABB=ON  PLU=ON  HUMID? OR MOIST? OR DAMP?
L32 (      1114)SEA ABB=ON  PLU=ON  L30 (1W) (REMOV? OR DISPLAC?)
L33 (      1340)SEA ABB=ON  PLU=ON  (REMOV? OR DISPLAC?) (2W) L30
L34 (        44)SEA ABB=ON  PLU=ON  (L32 OR L33) (7A) (L31 OR AIR OR (WATER
                (1W) (VAPOR OR VAPOUR)) OR STEAM)
L35 (        23)DUP REM L34 (21 DUPLICATES REMOVED)
L36 (         3)SEA ABB=ON  PLU=ON  L34 (15A) (POWDER OR SOLID OR GRAIN? OR
```

```
                ?GRANUL? OR ?PARTICL? OR ?PARTICULAT? OR ?CRYSTAL?)
L37 (           5)SEA L35
L38 (           0)SEA L37 AND L36
L39 (           5)SEA L35
L40 (           0)SEA L39 AND L36
L41 (           6)SEA L35
L42             1 SEA L41 AND L36
L43 (           3)SEA L35
L44 (           0)SEA L43 AND L36
L45 (           0)SEA L35
L46 (           0)SEA L45 AND L36
L47 (           0)SEA L35
L48 (           0)SEA L47 AND L36
L49 (           0)SEA L35
L50 (           0)SEA L49 AND L36
L51 (           4)SEA L35
L52             1 SEA L51 AND L36
L53             2 SEA ABB=ON  PLU=ON  L35 AND L36
                 ---------

      FILE 'STNGUIDE' ENTERED AT 07:51:23 ON 22 AUG 2005

      FILE 'ZCAPLUS' ENTERED AT 07:51:47 ON 22 AUG 2005

      FILE 'HCAPLUS' ENTERED AT 07:51:50 ON 22 AUG 2005

      FILE 'WPIX' ENTERED AT 07:51:52 ON 22 AUG 2005

      FILE 'MEDLINE' ENTERED AT 07:51:58 ON 22 AUG 2005

      FILE 'PASCAL' ENTERED AT 07:52:02 ON 22 AUG 2005

      FILE 'BIOSIS' ENTERED AT 07:52:05 ON 22 AUG 2005

      FILE 'JICST-EPLUS' ENTERED AT 07:52:08 ON 22 AUG 2005

      FILE 'CANCERLIT' ENTERED AT 07:52:12 ON 22 AUG 2005

      FILE 'DRUGU' ENTERED AT 07:52:15 ON 22 AUG 2005

      FILE 'DRUGB' ENTERED AT 07:52:20 ON 22 AUG 2005

      FILE 'SCISEARCH' ENTERED AT 07:52:25 ON 22 AUG 2005

      FILE 'STNGUIDE' ENTERED AT 07:52:29 ON 22 AUG 2005
                D QUE L21
                D QUE L29
                D QUE L53

      FILE 'STNGUIDE' ENTERED AT 07:53:02 ON 22 AUG 2005

      FILE 'HCAPLUS, WPIX, PASCAL, SCISEARCH' ENTERED AT 07:53:09 ON 22 AUG 2005
L54             12 DUP REM L21 L29 L53 (0 DUPLICATES REMOVED)
                      ANSWERS '1-7' FROM FILE HCAPLUS
                      ANSWERS '8-10' FROM FILE WPIX
                      ANSWER '11' FROM FILE PASCAL
                      ANSWER '12' FROM FILE SCISEARCH
                D IBIB ED AB HITIND
                D IBIB ED AB HITIND 2-7
                D IALL ABEQ TECH ABEX 8-10
```

```
          D IBIB ED AB HITIND 11-

FILE 'STNGUIDE' ENTERED AT 07:54:58 ON 22 AUG 2005
          D QUE L21
          D QUE L29
          D QUE L53


FILE HOME

FILE HCAPLUS

Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
the American Chemical Society and is provided to assist you in searching
databases on STN.  Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS, is
strictly prohibited.

FILE COVERS 1907 - 22 Aug 2005  VOL 143 ISS 9
FILE LAST UPDATED: 21 Aug 2005  (20050821/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

FILE WPIX
FILE LAST UPDATED:          18 AUG 2005      <20050818/UP>
MOST RECENT DERWENT UPDATE:     200553        <200553/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,
    PLEASE VISIT:
 http://www.stn-international.de/training_center/patents/stn_guide.pdf <<<

>>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE
    http://thomsonderwent.com/coverage/latestupdates/           <<<

>>> FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER
    GUIDES, PLEASE VISIT:
    http://thomsonderwent.com/support/userguides/               <<<

>>> NEW! FAST-ALERTING ACCESS TO NEWLY-PUBLISHED PATENT
    DOCUMENTATION NOW AVAILABLE IN DERWENT WORLD PATENTS INDEX
    FIRST VIEW - FILE WPIFV.
    FOR FURTHER DETAILS: http://www.thomsonderwent.com/dwpifv  <<<

>>> THE CPI AND EPI MANUAL CODES HAVE BEEN REVISED FROM UPDATE 200501.
    PLEASE CHECK:
http://thomsonderwent.com/support/dwpiref/reftools/classification/code-rev
    FOR DETAILS. <<<

FILE STNGUIDE
FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Aug 12, 2005 (20050812/UP).
```

FILE MEDLINE
FILE LAST UPDATED: 20 AUG 2005 (20050820/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP RLOAD at an arrow promt (=>). See also:

http://www.nlm.nih.gov/mesh/
http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE BIOSIS
FILE COVERS 1969 TO DATE.
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 17 August 2005 (20050817/ED)

FILE RELOADED: 19 October 2003.

FILE PASCAL
FILE LAST UPDATED: 22 AUG 2005 <20050822/UP>
FILE COVERS 1977 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION IS AVAILABLE
IN THE BASIC INDEX (/BI) FIELD <<<

FILE JICST-EPLUS
FILE COVERS 1985 TO 15 AUG 2005 (20050815/ED)

THE JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED TERM (/CT) THESAURUS RELOAD.

FILE CANCERLIT
FILE COVERS 1963 TO 15 Nov 2002 (20021115/ED)

On July 28, 2002, CANCERLIT was reloaded. See HELP RLOAD for details.

CANCERLIT thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2002 vocabulary. Enter HELP THESAURUS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

FILE DRUGU
FILE LAST UPDATED: 17 AUG 2005 <20050817/UP>
>>> DERWENT DRUG FILE (SUBSCRIBER) <<<

>>> FILE COVERS 1983 TO DATE <<<
>>> THESAURUS AVAILABLE IN /CT <<<

FILE DRUGB
>>> FILE COVERS 1964 TO 1982 - CLOSED FILE <<<

FILE SCISEARCH

FILE COVERS 1974 TO 18 Aug 2005 (20050818/ED)

SCISEARCH has been reloaded, see HELP RLOAD for details.

FILE ZCAPLUS

FILE COVERS 1907 - 22 Aug 2005 VOL 143 ISS 9
FILE LAST UPDATED: 21 Aug 2005 (20050821/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=>

```
=> fil zcap
FILE 'ZCAPLUS' ENTERED AT 07:51:47 ON 22 AUG 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
American Chemical Society and is provided to assist you in searching
databases on STN.  Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS is
strictly prohibited.

FILE COVERS 1907 - 22 Aug 2005  VOL 143 ISS 9
FILE LAST UPDATED: 21 Aug 2005  (20050821/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.

=> fil hcap
FILE 'HCAPLUS' ENTERED AT 07:51:50 ON 22 AUG 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

Copyright of the articles to which records in this database refer is
held by the publishers listed in the PUBLISHER (PB) field (available
for records published or updated in Chemical Abstracts after December
26, 1996), unless otherwise indicated in the original publications.
The CA Lexicon is the copyrighted intellectual property of the
the American Chemical Society and is provided to assist you in searching
databases on STN.  Any dissemination, distribution, copying, or storing
of this information, without the prior written consent of CAS, is
strictly prohibited.

FILE COVERS 1907 - 22 Aug 2005  VOL 143 ISS 9
FILE LAST UPDATED: 21 Aug 2005  (20050821/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

 This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> fil wpix
FILE 'WPIX' ENTERED AT 07:51:52 ON 22 AUG 2005
COPYRIGHT (C) 2005 THE THOMSON CORPORATION

FILE LAST UPDATED:          18 AUG 2005      <20050818/UP>
MOST RECENT DERWENT UPDATE:     200553        <200553/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE,
    PLEASE VISIT:
```

http://www.stn-international.de/training_center/patents/stn_guide.pdf <<<

>>> FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE
http://thomsonderwent.com/coverage/latestupdates/ <<<

>>> FOR INFORMATION ON ALL DERWENT WORLD PATENTS INDEX USER
GUIDES, PLEASE VISIT:
http://thomsonderwent.com/support/userguides/ <<<

>>> NEW! FAST-ALERTING ACCESS TO NEWLY-PUBLISHED PATENT
DOCUMENTATION NOW AVAILABLE IN DERWENT WORLD PATENTS INDEX
FIRST VIEW - FILE WPIFV.
FOR FURTHER DETAILS: http://www.thomsonderwent.com/dwpifv <<<

>>> THE CPI AND EPI MANUAL CODES HAVE BEEN REVISED FROM UPDATE 200501.
PLEASE CHECK:
http://thomsonderwent.com/support/dwpiref/reftools/classification/code-revision/
FOR DETAILS. <<<

=> fil medlin
FILE 'MEDLINE' ENTERED AT 07:51:58 ON 22 AUG 2005

FILE LAST UPDATED: 20 AUG 2005 (20050820/UP). FILE COVERS 1950 TO DATE.

On December 19, 2004, the 2005 MeSH terms were loaded.

The MEDLINE reload for 2005 is now available. For details enter HELP
RLOAD at an arrow promt (=>). See also:

http://www.nlm.nih.gov/mesh/
http://www.nlm.nih.gov/pubs/techbull/nd04/nd04_mesh.html

OLDMEDLINE now back to 1950.

MEDLINE thesauri in the /CN, /CT, and /MN fields incorporate the
MeSH 2005 vocabulary.

This file contains CAS Registry Numbers for easy and accurate
substance identification.

=> fil pascal
FILE 'PASCAL' ENTERED AT 07:52:02 ON 22 AUG 2005

FILE LAST UPDATED: 22 AUG 2005 <20050822/UP>
FILE COVERS 1977 TO DATE.

>>> SIMULTANEOUS LEFT AND RIGHT TRUNCATION IS AVAILABLE
IN THE BASIC INDEX (/BI) FIELD <<<

=> fil biosis
FILE 'BIOSIS' ENTERED AT 07:52:05 ON 22 AUG 2005

FILE COVERS 1969 TO DATE.
CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT
FROM JANUARY 1969 TO DATE.

RECORDS LAST ADDED: 17 August 2005 (20050817/ED)

FILE RELOADED: 19 October 2003.

=> fil jicst
FILE 'JICST-EPLUS' ENTERED AT 07:52:08 ON 22 AUG 2005
COPYRIGHT (C) 2005 Japan Science and Technology Agency (JST)

FILE COVERS 1985 TO 15 AUG 2005 (20050815/ED)

THE JICST-EPLUS FILE HAS BEEN RELOADED TO REFLECT THE 1999 CONTROLLED TERM (/CT) THESAURUS RELOAD.

=> fil cancerlit
FILE 'CANCERLIT' ENTERED AT 07:52:12 ON 22 AUG 2005

FILE COVERS 1963 TO 15 Nov 2002 (20021115/ED)

On July 28, 2002, CANCERLIT was reloaded. See HELP RLOAD for details.

CANCERLIT thesauri in the /CN, /CT, and /MN fields incorporate the MeSH 2002 vocabulary. Enter HELP THESAURUS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> fil drugu
FILE 'DRUGU' ENTERED AT 07:52:15 ON 22 AUG 2005
COPYRIGHT (C) 2005 THE THOMSON CORPORATION

FILE LAST UPDATED: 17 AUG 2005 <20050817/UP>
>>> DERWENT DRUG FILE (SUBSCRIBER) <<<

>>> FILE COVERS 1983 TO DATE <<<
>>> THESAURUS AVAILABLE IN /CT <<<

=> fil drugb
FILE 'DRUGB' ENTERED AT 07:52:20 ON 22 AUG 2005
COPYRIGHT (C) 2005 THE THOMSON CORPORATION

>>> FILE COVERS 1964 TO 1982 - CLOSED FILE <<<

=> fil scisearch
FILE 'SCISEARCH' ENTERED AT 07:52:25 ON 22 AUG 2005
Copyright (c) 2005 The Thomson Corporation

FILE COVERS 1974 TO 18 Aug 2005 (20050818/ED)

SCISEARCH has been reloaded, see HELP RLOAD for details.

=> file stnguide
FILE 'STNGUIDE' ENTERED AT 07:52:29 ON 22 AUG 2005
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.

LAST RELOADED: Aug 12, 2005 (20050812/UP).

```
=> d que l21
L1  (   1261035)SEA FILE=HCAPLUS ABB=ON  PLU=ON  ALCOHOLS+PFT,NT1/CT
L2  (      8982)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L1 (L) REM/RL
L3              QUE  ABB=ON  PLU=ON  ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR
                 METHANOL OR PROPANOL OR ISOPROPANOL
L4              QUE  ABB=ON  PLU=ON  AIR OR GAS OR MIST OR VAPOR
L5              QUE  ABB=ON  PLU=ON  HUMID? OR MOIST? OR DAMP?
L6  (         92)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L2 (L) ?CRYSTAL?
L7  (         45)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 AND (TOXICOLOGY OR
                 RADIATION OR "AMINO ACIDS" OR BIOMOLECULES OR BENZENOID OR
                 HETEROCYCLIC OR PHARM? OR "UNIT OPERATIONS" OR TERPENES OR
                 PLASTICS)/SC
L8  (          4)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 AND (IOHEXOL OR CAROTENOID)
                 /TI
L9  (          7)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 AND UNIT/SC
L10 (          2)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L6 AND AMINO/SC
L11 (         56)SEA FILE=HCAPLUS ABB=ON  PLU=ON  (L7 OR L8 OR L9 OR L10)
L12 (         10)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L11 AND DRYING/CT
L13 (          2)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L12 AND L4
L14 (          1)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L13 AND PHARM?/SC
L15 (          6)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L11 AND (L5 OR (WATER(1W)VAPOR
                 ))
L16 (          4)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L15 NOT L13
L17 (        154)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L3 (1W) DISPLAC?
L18 (        186)SEA FILE=HCAPLUS ABB=ON  PLU=ON  DISPLAC? (2W) L3
L19 (          9)SEA FILE=HCAPLUS ABB=ON  PLU=ON  ((L17 OR L18)) (5A) (L4 OR
                 L5)
L20 (          2)SEA FILE=HCAPLUS ABB=ON  PLU=ON  L19 AND (EXPLOSIVES OR
                 COATINGS)/SC
L21            7 SEA FILE=HCAPLUS ABB=ON  PLU=ON  L14 OR L16 OR L20


=> d que l29
L22 (      19238)SEA FILE=WPIX ABB=ON  PLU=ON  (B01D001? OR B01D012? OR
                 F26B003? OR F26B005?)/IPC
L23 (      11596)SEA FILE=WPIX ABB=ON  PLU=ON  (?ALCOHOL?/BIX OR ?ALKANOL?/BIX
                 OR ETHANOL/BIX OR METHANOL/BIX OR PROPANOL/BIX OR ISOPROPANOL/B
                 IX) (3A) (REMOV? OR DISPLAC? OR DISPERS?)/BIX
L24 (        501)SEA FILE=WPIX ABB=ON  PLU=ON  L23 (7A) ((AIR/BIX OR GAS/BIX OR
                 MIST/BIX OR VAPOR/BIX) OR WET/BIX OR (WATER(1W)(VAPOR OR
                 VAPOUR))/BIX)
L25 (          6)SEA FILE=WPIX ABB=ON  PLU=ON  L22 AND L24
L26 (          1)SEA FILE=WPIX ABB=ON  PLU=ON  L25 AND (DRIED(1W)FOOD)/TI
L27 (         10)SEA FILE=WPIX ABB=ON  PLU=ON  L24 (10A) ?CRYSTAL?/BIX
L28 (          2)SEA FILE=WPIX ABB=ON  PLU=ON  L27 AND (DISTANNOXANE OR
                 CEFAMANDOLE)/TI
L29            3 SEA FILE=WPIX ABB=ON  PLU=ON  L26 OR L28


=> d his l53

     (FILE 'MEDLINE, BIOSIS, PASCAL, JICST-EPLUS, CANCERLIT, DRUGU, DRUGB,
     SCISEARCH' ENTERED AT 07:51:07 ON 22 AUG 2005)
L53            2 SEA L35 AND L36
                 ---------

     FILE 'STNGUIDE' ENTERED AT 07:51:23 ON 22 AUG 2005

     FILE 'ZCAPLUS' ENTERED AT 07:51:47 ON 22 AUG 2005
```

FILE 'HCAPLUS' ENTERED AT 07:51:50 ON 22 AUG 2005

FILE 'WPIX' ENTERED AT 07:51:52 ON 22 AUG 2005

FILE 'MEDLINE' ENTERED AT 07:51:58 ON 22 AUG 2005

FILE 'PASCAL' ENTERED AT 07:52:02 ON 22 AUG 2005

FILE 'BIOSIS' ENTERED AT 07:52:05 ON 22 AUG 2005

FILE 'JICST-EPLUS' ENTERED AT 07:52:08 ON 22 AUG 2005

FILE 'CANCERLIT' ENTERED AT 07:52:12 ON 22 AUG 2005

FILE 'DRUGU' ENTERED AT 07:52:15 ON 22 AUG 2005

FILE 'DRUGB' ENTERED AT 07:52:20 ON 22 AUG 2005

FILE 'SCISEARCH' ENTERED AT 07:52:25 ON 22 AUG 2005

FILE 'STNGUIDE' ENTERED AT 07:52:29 ON 22 AUG 2005

```
=> d que l53
L30             QUE  ABB=ON  PLU=ON  ?ALCOHOL? OR ?ALKANOL? OR ETHANOL OR
                 METHANOL OR PROPANOL OR ISOPROPANOL
L31             QUE  ABB=ON  PLU=ON  HUMID? OR MOIST? OR DAMP?
L32 (      1114)SEA L30 (1W) (REMOV? OR DISPLAC?)
L33 (      1340)SEA (REMOV? OR DISPLAC?) (2W) L30
L34 (        44)SEA (L32 OR L33) (7A) (L31 OR AIR OR (WATER (1W) (VAPOR OR
                 VAPOUR)) OR STEAM)
L35 (        23)DUP REM L34 (21 DUPLICATES REMOVED)
L36 (         3)SEA L34 (15A) (POWDER OR SOLID OR GRAIN? OR ?GRANUL? OR
                 ?PARTICL? OR ?PARTICULAT? OR ?CRYSTAL?)
L37 (         5)SEA FILE=MEDLINE L35
L38 (         0)SEA FILE=MEDLINE L37 AND L36
L39 (         5)SEA FILE=BIOSIS L35
L40 (         0)SEA FILE=BIOSIS L39 AND L36
L41 (         6)SEA FILE=PASCAL L35
L42           1 SEA FILE=PASCAL L41 AND L36
L43 (         3)SEA FILE=JICST-EPLUS L35
L44 (         0)SEA FILE=JICST-EPLUS L43 AND L36
L45 (         0)SEA FILE=CANCERLIT L35
L46 (         0)SEA FILE=CANCERLIT L45 AND L36
L47 (         0)SEA FILE=DRUGU L35
L48 (         0)SEA FILE=DRUGU L47 AND L36
L49 (         0)SEA FILE=DRUGB L35
L50 (         0)SEA FILE=DRUGB L49 AND L36
L51 (         4)SEA FILE=SCISEARCH L35
L52           1 SEA FILE=SCISEARCH L51 AND L36
L53           2 SEA L35 AND L36    #


=> file stnguide
FILE 'STNGUIDE' ENTERED AT 07:53:02 ON 22 AUG 2005
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Aug 12, 2005 (20050812/UP).
```

```
=> dup rem l21 l29 l53
FILE 'HCAPLUS' ENTERED AT 07:53:09 ON 22 AUG 2005
USE IS SUBJECT TO THE TERMS OF YOUR STN CUSTOMER AGREEMENT.
PLEASE SEE "HELP USAGETERMS" FOR DETAILS.
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY (ACS)

FILE 'WPIX' ENTERED AT 07:53:09 ON 22 AUG 2005
COPYRIGHT (C) 2005 THE THOMSON CORPORATION

FILE 'PASCAL' ENTERED AT 07:53:09 ON 22 AUG 2005
Any reproduction or dissemination in part or in full,
by means of any process and on any support whatsoever
is prohibited without the prior written agreement of INIST-CNRS.
COPYRIGHT (C) 2005 INIST-CNRS. All rights reserved.

FILE 'SCISEARCH' ENTERED AT 07:53:09 ON 22 AUG 2005
Copyright (c) 2005 The Thomson Corporation
PROCESSING COMPLETED FOR L21
PROCESSING COMPLETED FOR L29
PROCESSING COMPLETED FOR L53
L54            12 DUP REM L21 L29 L53 (0 DUPLICATES REMOVED)
                  ANSWERS '1-7' FROM FILE HCAPLUS
                  ANSWERS '8-10' FROM FILE WPIX
                  ANSWER '11' FROM FILE PASCAL
                  ANSWER '12' FROM FILE SCISEARCH
```

=> d ibib ed ab hitind

L54 ANSWER 1 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2005:238698 HCAPLUS
DOCUMENT NUMBER: 142:303646
TITLE: Method for reducing residual alcohols in crystalline valacyclovir hydrochloride
INVENTOR(S): Dolitzky, Ben-zion; Lifshitz, Igor
PATENT ASSIGNEE(S): Israel
SOURCE: U.S. Pat. Appl. Publ., 6 pp., Cont.-in-part of U.S. Ser. No. 688,538.
CODEN: USXXCO
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
US 2005059684	A1	20050317	US 2004-880862		20040630
US 2005070711	A1	20050331	US 2003-688538		20031016
PRIORITY APPLN. INFO.:			US 2002-419270P	P	20021016
			US 2002-427320P	P	20021118
			US 2003-688538	A2	20031016

ED Entered STN: 18 Mar 2005
AB Provided is valacyclovir hydrochloride stable against formation of N'-formylvalacyclovir upon storage at elevated **humidity** and pharmaceutical compns. including such valacyclovir hydrochloride.
IC ICM A61K031-522
ICS C07D473-12
INCL 514263380; 544276000
CC 63-6 (**Pharmaceuticals**)
IT **Humidity**
(elevated; reducing residual alcs. in crystalline valacyclovir hydrochloride to prevent N'-formylvalacyclovir formation)
IT Air
(**humid**; reducing residual alcs. in crystalline valacyclovir hydrochloride to prevent N'-formylvalacyclovir formation)
IT **Alcohols, processes**
RL: **REM (Removal or disposal)**; PROC (Process)
(reducing residual alcs. in **crystalline** valacyclovir hydrochloride to prevent N'-formylvalacyclovir formation)
IT **67-63-0**, Isopropanol, uses
RL: NUU (Other use, unclassified); **REM (Removal or disposal)**; PROC (Process); USES (Uses)
(reducing residual alcs. in **crystalline** valacyclovir hydrochloride to prevent N'-formylvalacyclovir formation)

=> d ibib ed ab hitind 2-7

L54 ANSWER 2 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2004:354944 HCAPLUS
DOCUMENT NUMBER: 140:357665
TITLE: Method for reducing the residual process alcohols present in crystalline valacyclovir hydrochloride by contacting it with a **humid** gas at ambient pressure
INVENTOR(S): Dolitzky, Ben-Zion; Lifshitz, Igor
PATENT ASSIGNEE(S): Teva Pharmaceutical Industries Ltd., Israel; Teva

SOURCE: Pharmaceuticals USA, Inc.
PCT Int. Appl., 13 pp.
CODEN: PIXXD2

DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

Same

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2004035583	A1	20040429	WO 2003-US32995	20031016
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
CA 2501557	AA	20040429	CA 2003-2501557	20031016
EP 1551838	A1	20050713	EP 2003-809127	20031016
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK				

PRIORITY APPLN. INFO.:		
US 2002-419270P	P	20021016
US 2002-427320P	P	20021118
WO 2003-US32995	W	20031016

ED Entered STN: 30 Apr 2004

AB A method of reducing excess residual process alc. (e.g., isopropanol) in valacyclovir hydrochloride to ≤1000 ppm is achieved by contacting the valacyclovir hydrochloride having excess residual process alc. with a **moist** gas (e.g., **moist** air) in a fluidized-bed reactor.

IC ICM C07D473-18

CC 34-2 (**Amino** Acids, Peptides, and Proteins)
Section cross-reference(s): 45, 48, 63

ST valacyclovir hydrochloride removal process alc; residual isopropanol removal valacyclovir hydrochloride contact **moist** gas

IT Extraction apparatus
Reactors
(fluidized-bed; method for reducing the residual process alcs. present in crystalline valacyclovir hydrochloride by contacting it with a **humid** gas at ambient pressure in a)

IT Air
(**humid**; method for reducing the residual process alcs. present in crystalline valacyclovir hydrochloride by contacting it with a **humid** gas at ambient pressure)

IT **Alcohols, processes**
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); **REM (Removal or disposal)**; PROC (Process)
(method for reducing the residual process alcs. present in **crystalline** valacyclovir hydrochloride by contacting it with a **humid** gas at ambient pressure)

IT Fluidized beds
(reactors; method for reducing the residual process alcs. present in crystalline valacyclovir hydrochloride by contacting it with a **humid** gas at ambient pressure in a)

IT 7732-18-5, Water, uses
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PYP (Physical process); PROC (Process); USES (Uses)

(method for reducing the residual process alcs. present in crystalline valacyclovir hydrochloride by contacting it with a **humid** gas at ambient pressure)

IT 124832-27-5P, Valacyclovir hydrochloride
RL: PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PYP (Physical process); PREP (Preparation); PROC (Process)
(method for reducing the residual process alcs. present in crystalline valacyclovir hydrochloride by contacting it with a **humid** gas at ambient pressure)

IT **64-17-5**, Ethanol, processes **67-63-0**, 2-Propanol, processes
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); **REM (Removal or disposal)**; PROC (Process)
(method for reducing the residual process alcs. present in **crystalline** valacyclovir hydrochloride by contacting it with a **humid** gas at ambient pressure)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 3 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:886110 HCAPLUS
DOCUMENT NUMBER: 136:20030
TITLE: Method for replacing organic solvents contained in clathrate crystals
INVENTOR(S): Kubota, Ariyoshi; Yasuda, Hironobu; Zanka, Atsuhiko; Goto, Shunsuke; Hirabayashi, Satoshi
PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan
SOURCE: PCT Int. Appl., 14 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001092254	A1	20011206	WO 2001-JP4467	20010528
W: JP, US				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				

PRIORITY APPLN. INFO.: JP 2000-160590 A 20000530
OTHER SOURCE(S): CASREACT 136:20030
ED Entered STN: 07 Dec 2001
AB The problem of how to replace an organic solvent contained in clathrate crystals with water without causing transition of the crystals is solved by using a fluidizing means under a **humidity**-conditioned atmospheric, the clathrate crystals being especially A-type crystals of 8-[3-[N-[N-[(E)-3-(6-acetamidopyridin-3-yl)acryloyl]glycyl]-N-methylamino]-2,6-dichlorobenzyloxy]-2-methylquinoline (FR173657) (I). I is a bradykinin antagonist and its A-type crystal is crystallized from aqueous acetone which is known to be stable but contain toxic acetone as a guest in tunnels of clathrate structure. This process efficiently replaces organic solvents such as acetone with water in a short period of time. Thus, 7.32 kg iso-Pr chlorocarbonate was added to a mixture of 12.9 kg (E)-3-(6-acetamidopyridin-3-yl)acrylic acid and 97.9 kg DMF at 0° over a period of .apprx.20 min and stirred at 0° for 30 min, followed by adding 23.0 kg 8-[3-(N-glycyl-N-methylamino)-2,6-dichlorobenzyloxy]-2-methylquinoline in five portions at an interval of every 15 min and washing with 7.32 kg DMF. The resulting mixture was stirred at 0° for 1.5 h, treated with 130 L

MeOH and left to stand overnight, heated to .apprx.65° and stirred at the same temperature for .apprx.30 min, and then cooled to ≤10° and allowed to be crystallized at 0-10°. The precipitated crystals were separated by a centrifuge apparatus and washed with 46 L MeOH, suspended in 805 L MeOH, heated to .apprx.65°, cooled, and stirred at 10-20° for ≥1 h, and then filtered. The obtained crystals were washed with 46 L MeOH and vacuum-dried at 40° to give 24.6 kg of crude anhydrous crystals of I containing .apprx.5% MeOH. To a mixture of the latter crystals (100 g) and 500 mL purified water was added 28.1 mL concentrated HCl with stirring at ≤10° for dissolving the crystals. The resulting solution was treated with 5 g carbon powder, and stirred for 1.5 h, followed by removing the carbon powder by filtration and washing it with 200 mL purified water and 1.4 mL concentrated HCl. The filtrate was added to a mixture of 700 mL acetone and 35.87 g Et3N at 55°, stirred at the same temperature for 5 min and refluxed for 10 min, and then cooled to 40°. The precipitated crystals were removed by filtration, washed with 50% aqueous acetone, and vacuum-dried to give 88.7 g I hydrate (A-type clathrate crystal) containing 8.33% acetone. Air was passed to this crystals (12.3 kg) at 45° under 60% relative **humidity** for 98 h in a vibration fluidized bed apparatus to give I crystals containing 0.37% acetone and 6.69% water.

IC ICM C07D401-12
ICS C07D471-00; C07D501-12; A61K031-4709; A61P043-00; A61P009-12

CC 27-17 (**Heterocyclic** Compounds (One Hetero Atom))
Section cross-reference(s): 1

IT Fluidized beds
(method for replacing organic solvents contained in dichlorobenzyloxymethylquinoline derivative (FR173657) clathrate crystals with water under **humid** conditions in fluidized bed apparatus)

IT Clathrates
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(method for replacing organic solvents contained in dichlorobenzyloxymethylquinoline derivative (FR173657) clathrate crystals with water under **humid** conditions in fluidized bed apparatus)

IT Solvents
(organic; method for replacing organic solvents contained in dichlorobenzyloxymethylquinoline derivative (FR173657) clathrate crystals with water under **humid** conditions in fluidized bed apparatus)

IT 167838-64-4P
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PYP (Physical process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(bradykinin antagonist; method for replacing organic solvents contained in dichlorobenzyloxymethylquinoline derivative (FR173657) clathrate crystals with water under **humid** conditions in fluidized bed apparatus)

IT **64-17-5**, Ethanol, uses **67-56-1**, Methanol, uses **67-63-0**, Isopropyl alcohol, uses 67-64-1, Acetone, uses 75-05-8, Acetonitrile, uses 109-99-9, Tetrahydrofuran, uses 141-78-6, Ethyl acetate, uses
RL: NUU (Other use, unclassified); PEP (Physical, engineering or chemical process); PYP (Physical process); **REM (Removal or disposal)**; PROC (Process); USES (Uses)
(**crystallization** solvent; method for replacing organic solvents contained in dichlorobenzyloxymethylquinoline derivative (FR173657) clathrate **crystals** with water under **humid**

conditions in fluidized bed apparatus)
IT 264879-68-7P
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PUR (Purification or recovery); PYP (Physical process); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC (Process); USES (Uses)
(method for replacing organic solvents contained in dichlorobenzyloxymethylquinoline derivative (FR173657) clathrate crystals with water under **humid** conditions in fluidized bed apparatus)
IT 264879-67-6P 377780-51-3P
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); PYP (Physical process); SPN (Synthetic preparation); PREP (Preparation); PROC (Process)
(method for replacing organic solvents contained in dichlorobenzyloxymethylquinoline derivative (FR173657) clathrate crystals with water under **humid** conditions in fluidized bed apparatus)
IT 160648-18-0 167834-66-4
RL: RCT (Reactant); RACT (Reactant or reagent)
(method for replacing organic solvents contained in dichlorobenzyloxymethylquinoline derivative (FR173657) clathrate crystals with water under **humid** conditions in fluidized bed apparatus)
REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 4 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 2001:872995 HCAPLUS
DOCUMENT NUMBER: 136:20027
TITLE: Release of guest solvents from clathrate crystals
INVENTOR(S): Kubota, Arikatsu; Yasuda, Hironobu; Zanka, Atsuhiko; Itsushima, Shunsuke; Hirabayashi, Satoshi
PATENT ASSIGNEE(S): Fujisawa Pharmaceutical Co., Ltd., Japan
SOURCE: Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2001334102	A2	20011204	JP 2000-160591	20000530
PRIORITY APPLN. INFO.:			JP 2000-160591	20000530

ED Entered STN: 04 Dec 2001
AB Solvents in clathrate crystals are released by substitution of the solvents with easily releasable solvents and releasing the solvents from the crystals. A-type crystals of FR 173657 (containing acetone as a guest) were treated with MeOH vapor at 30° for 1 day, vacuum-dried at 30° under 1-4 Torr for 2 days, and **moisture**-conditioned to give crystals with acetone content 0.02 weight% and MeOH content 0.19 weight%.
IC ICM B01D012-00
ICS C07D401-12
CC 27-17 (**Heterocyclic** Compounds (One Hetero Atom))
Section cross-reference(s): 63
IT **64-17-5**, Ethanol, processes **67-63-0**, Isopropyl alcohol, processes 109-99-9, THF, processes 141-78-6, Ethyl acetate, processes
RL: **REM (Removal or disposal)**; PROC (Process)
(release of guest solvents from clathrate **crystals**)

L54 ANSWER 5 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN

ACCESSION NUMBER: 1999:175753 HCAPLUS
DOCUMENT NUMBER: 130:213704
TITLE: Method for removal of residual organic solvents from a crystalline bulk substance and use thereof in manufacturing pharmaceuticals
INVENTOR(S): Mudryk, Bogdan; Dung, Jen-Sen; Sapino, Chester; Guro, James
PATENT ASSIGNEE(S): Johnson Matthey Public Limited Company, UK
SOURCE: Eur. Pat. Appl., 6 pp.
CODEN: EPXXDW
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 900582	A1	19990310	EP 1998-306341	19980807
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
AU 9878540	A1	19990304	AU 1998-78540	19980729
CA 2245314	AA	19990221	CA 1998-2245314	19980819
JP 11147844	A2	19990602	JP 1998-235468	19980821
US 5981751	A	19991109	US 1998-138086	19980821
PRIORITY APPLN. INFO.:			GB 1997-17629 A	19970821

ED Entered STN: 17 Mar 1999
AB A method for removing residual organic solvents from a bulk substance, for example from a pharmaceutical drug substance, comprises drying the bulk substance in the presence of water **vapor**, such that the residual organic solvent mols. are displaced with water **vapor** mols. A sample of hydrocodone bitartrate containing 2.1% EtOH was placed in a vacuum oven along with a crystallization dish containing water, a vacuum applied and the sample dried at 60° for 24h to give ethanol-free products (as the hemipentahydrate).
IC ICM B01D001-00
ICS F26B003-00; F26B005-00
CC 63-8 (**Pharmaceuticals**)
IT **Drying**
Drying apparatus
Water **vapor**
(removal of residual organic solvents from a crystalline bulk substance and use in manufacturing pharmaceuticals)
IT **64-17-5**, Ethanol, processes **71-23-8**, 1-Propanol, processes
RL: **REM (Removal or disposal)**; PROC (Process)
(removal of residual organic solvents from a **crystalline** bulk substance and use in manufacturing pharmaceuticals)
REFERENCE COUNT: 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L54 ANSWER 6 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1976:107130 HCAPLUS
DOCUMENT NUMBER: 84:107130
TITLE: Effect of the moisture content of organic pigments on their application in paints and printing inks
AUTHOR(S): Herbst, Willy; Merkle, Kurt
CORPORATE SOURCE: Farbwerke Hoechst A.-G., Frankfurt/Main, Fed. Rep. Ger.

SOURCE: FATIPEC Congress, (1974), 12, 219-24
CODEN: FAPVAP; ISSN: 0430-2222
DOCUMENT TYPE: Journal
LANGUAGE: German
ED Entered STN: 12 May 1984
AB The effect of moisture content of pigments, which is quite pronounced, on the dispersibility of pigments in paints and offset printing inks and the wettability of pigments by hydrophobic binders is discussed. Essentially anhydrous pigments could not be prepared for use in this study. Since anal. methods for determining the moisture content of organic pigments are unsatisfactory, the prior history of the pigment was taken as a reference point for the data. Pigments from which H2O is displaced by solvents, i.e. MeOH [67-56-1] are most readily dispersible.
CC 42-5 (**Coatings**, Inks, and Related Products)
ST **methanol displacement moisture** pigment; moisture pigment dispersibility; binder wetting pigment moisture

L54 ANSWER 7 OF 12 HCAPLUS COPYRIGHT 2005 ACS on STN
ACCESSION NUMBER: 1944:19581 HCAPLUS
DOCUMENT NUMBER: 38:19581
ORIGINAL REFERENCE NO.: 38:2821i,2822f-g
TITLE: Removal and distribution of solvent in nitrocellulose powders. The effect of atmospheric **moisture** in solvent removal upon **alcohol displacement** in powders
AUTHOR(S): Schmitt, R.
SOURCE: Zeitschrift fuer das Gesamte Schiess- und Sprengstoffwesen (1943), 38, 180-2
CODEN: ZGSSAL; ISSN: 0372-8935
DOCUMENT TYPE: Journal
LANGUAGE: Unavailable
ED Entered STN: 16 Dec 2001
AB On removal of solvent at various atmospheric humidities, powders having various surface properties are obtained. With water-treated powders, increased atmospheric humidity in solvent removal corresponds to a reduction of the quantity of alc. driven out in fine powders. This rule does not apply to ether. With alc.-treated powders, the maximum total residual solvent removal corresponds to the maximum total residual solvent content in fine powder. The above rule thus applies here not only to the alcs., but also to total residual solvent, which is not unusual, because the total residual solvent contains only secondary quantities of ether. In both cases the effect of atmospheric humidity is most apparent between the practically important limits 60-100%.
CC 24 (**Explosives** and Explosions)
IT **Humidity**
(effect on **alc. displacement** in solvent removal from nitrocellulose explosive powders)
IT Explosives
(nitrocellulose powders, effect of atmospheric **moisture** in solvent removal on **alc. displacement** in)

=> d iall abeq tech abex 8-10

L54 ANSWER 8 OF 12 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN
ACCESSION NUMBER: 2001-228050 [24] WPIX
DOC. NO. CPI: C2001-068199
TITLE: Preparation of polyester useful in fiber material involves polycondensation of a dicarboxylic acid and a diol in the presence of a **distannoxane**

catalyst.
DERWENT CLASS: A23 A92 A96 E12 F01
INVENTOR(S): HAYAKAWA, T; TAKAHASHI, H; TERANISHI, T; UEDA, M
PATENT ASSIGNEE(S): (DAIL) DAICEL CHEM IND LTD
COUNTRY COUNT: 27
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
EP 1069145	A1	20010117	(200124)*	EN	13	C08G063-85
R: AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI						
JP 2001026640	A	20010130	(200124)		6	C08G063-85
JP 2001302776	A	20011031	(200204)		7	C08G063-85
US 6350850	B1	20020226	(200220)			C08G063-78
EP 1069145	B1	20040707	(200445)	EN		C08G063-85
R: DE FR NL						
DE 60011960	E	20040812	(200453)			C08G063-85
DE 60011960	T2	20050804	(200551)			C08G063-85

APPLICATION DETAILS:

PATENT NO	KIND	APPLICATION	DATE
EP 1069145	A1	EP 2000-402000	20000711
JP 2001026640	A	JP 1999-199768	19990714
JP 2001302776	A	JP 2000-124409	20000425
US 6350850	B1	US 2000-614650	20000712
EP 1069145	B1	EP 2000-402000	20000711
DE 60011960	E	DE 2000-00011960	20000711
		EP 2000-402000	20000711
DE 60011960	T2	DE 2000-00011960	20000711
		EP 2000-402000	20000711

FILING DETAILS:

PATENT NO	KIND	PATENT NO
DE 60011960	E Based on	EP 1069145
DE 60011960	T2 Based on	EP 1069145

PRIORITY APPLN. INFO: JP 2000-124409 20000425; JP 1999-199768 19990714
INT. PATENT CLASSIF.:
MAIN: C08G063-78; C08G063-85
SECONDARY: C08G063-16; C08G063-90
BASIC ABSTRACT:
EP 1069145 A UPAB: 20020204
NOVELTY - Preparation of polyester involves polycondensation of a dicarboxylic acid (1) and a diol (2) in the presence of a distannoxane catalyst (3).

USE - For producing polyester (claimed) which is useful in fiber material, film, container or engineering plastic. The aliphatic polyester is also used as a suture.

ADVANTAGE - The industrially effective process provides a high polymerization degree aliphatic polyester without the use of a high boiling point solvent and degradation procedure under reduced pressure. The process is extremely advantageous for saving energy from the viewpoint of cost and the installation can be greatly simplified. The process reduces by-produced water. The catalyst distannoxane has no effect on an

equilibrium constant compared to other metal catalysts and does not cause reverse reaction i.e. hydrolysis due to presence of water. The distannoxanes are cheap and easily synthesized and are soluble in almost all organic solvents.
Dwg.0/0
FILE SEGMENT: CPI
FIELD AVAILABILITY: AB; DCN
MANUAL CODES: CPI: A02-A07; A05-E02; A10-D05; E05-F01; F01-D04
TECH UPTX: 20020204
TECHNOLOGY FOCUS - ORGANIC CHEMISTRY - Preferred Distannoxane Catalyst: (3) is of formula X-Sn(R1)(R2)-O-Sn(R3)(R4)-Y.
R1-R4 = alkyl (preferably butyl);
X = T (preferably isothiocyanate);
Y = T (preferably hydroxy, alkoxy or acyloxy); and
T = isothiocyanate, halogen, hydroxy, alkoxy or acyloxy.
Preferred Components: (1) and (2) are preferably a non-aromatic dicarboxylic acid and non-aromatic diol respectively.
Preferred Composition: (2) is used in an amount of 1-1.2 moles per mole of (1).
TECHNOLOGY FOCUS - POLYMERS - Preferred Method: (1) and (2) are melt polycondensed under normal pressure in the presence of (3) and also in the presence of an organic solvent which does not dissolve any of (1), (2) and the polyester produced and results in the presence of mainly two phases. The polymer is isolated by precipitation or re-precipitation with an alcohol.
ABEX UPTX: 20020204
EXAMPLE - A solution (6 ml) of dichlorodibutyltin(IV) (3.34 g) in ethanol (6.6 ml) was added to an ethanol solution (13 ml) of potassium thiocyanate (1.94 g). This solution was stirred at 100 degreesC for 20 hours and filtered. The solvent of the filtrate was removed and the residue was recrystallized from toluene to obtain dibutyltin (IV) diisothiocyanate (A). Dibutylin oxide (IV) (7.47 g) and an ethanol solution of (A) (3.5 g) were stirred at 100 degreesC for 6 hours. Then **ethanol** was **removed**, and the mixture was exposed to **air** for 1 day and **recrystallized** from n-hexane to obtain 1-hydroxy-3-isothiocyanate-1,1,3,3-tetrabutyldistannoxane (B) as a catalyst.
A mixture of succinic acid (0.295 g), 1,4-butanediol (0.225 g) and (B) (0.014 g) was stirred at 130 degreesC for 72 hours. Methanol was added after the completion of the reaction and stirred for 12 hours. The resulting powdery polymer was filtered and dried at 60 degreesC under reduced pressure to obtain a polyester (yield 93%). The number average molecular weight Mn of the polyester was 5000, and molecular weight distribution Mw/Mn was 2.16.

L54 ANSWER 9 OF 12 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN
ACCESSION NUMBER: 1977-43408Y [25] WPIX
TITLE: Stable crystalline anhydrous sodium **cefamandole** - and the intermediate methanol solvate and monohydrate, for direct preparation of parenteral solutions.
DERWENT CLASS: B02
PATENT ASSIGNEE(S): (ELIL) LILLY & CO ELI
COUNTRY COUNT: 22
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
BE 849415	A	19770615	(197725)*			
DE 2654647	A	19770630	(197727)			
NL 7614233	A	19770624	(197727)			
SE 7614401	A	19770718	(197731)			

NO 7604222	A	19770718	(197732)
JP 52082714	A	19770711	(197734)
DK 7605755	A	19770822	(197737)
FI 7603682	A	19770831	(197738)
US 4054738	A	19771018	(197743)
PT 65955	A	19771115	(197749)
DD 128727	A	19771207	(197810)
FR 2351984	A	19780120	(197810)
FR 2351985	A	19780120	(197810)
FR 2361898	A	19780421	(197820)
HU 14802	T	19780428	(197820)
ZA 7606957	A	19780522	(197829)
AT 7609489	A	19780715	(197831)
AT 7802175	A	19780815	(197835)
AT 7802178	A	19780815	(197835)
CS 7608302	A	19790531	(197934)
CS 7802294	A	19790531	(197934)
CS 7802295	A	19790531	(197934)
SU 637087	A	19781229	(197937)
SU 671732	A	19790630	(198011)
IL 50977	A	19800229	(198013)
IL 57386	A	19800229	(198013)
IL 57387	A	19800229	(198013)
GB 1565854	A	19800423	(198017)
CA 1080696	A	19800701	(198029)
CA 1089446	A	19801111	(198050)
CA 1089447	A	19801111	(198050)
RO 69709	A	19800220	(198124)
RO 75963	A	19810228	(198131)
RO 75964	A	19810228	(198131)
CH 628348	A	19820226	(198211)
DE 2654647	C	19820624	(198226)
DE 2660667	A	19820701	(198227)
SE 8201701	A	19820705	(198229)
SE 8201702	A	19820705	(198229)
DE 2660667	C	19831103	(198345)
SU 1018585	A	19830515	(198412)
FI 8304617	A	19840330	(198420)
DK 8401339	A	19840229	(198502)
DK 8401341	A	19840229	(198502)
JP 61000351	B	19860108	(198605)
JP 61083189	A	19860426	(198623)
JP 62004393	B	19870130	(198708)
NL 187483	B	19910516	(199122)

PRIORITY APPLN. INFO: US 1975-642922 19751222
INT. PATENT CLASSIF.: A61K031-54; C07C000-00; C07D501-60
BASIC ABSTRACT:

BE 849415 A UPAB: 19930901

Crystalline anhydrous sodium cefamandole (I) (sodium 7-(D-2-hydroxy-2-phenyl-acetamido)-3-(1-methyl-1H-tetrazol-5-ylthio-methyl)-3-cephem-4-carboxylate) is new. The crystalline intermediates sodium cefamandole methanol solvate (II) and sodium cefamandole monohydrate (III) are also new. Stable crystalline sodium cefamandole is suitable for preparing parenteral formulations without the need for preparing the O-formyl derivative

Typically, pure cefamandole free acid in methanol is treated with sodium acetate in methanol to give the sodium cefamandole methanol

solvate. The **methanol** of solvation is **displaced** by exposure to moist **air** to give the **crystalline** monohydrate, or the solvate is dried at 45-50 degrees C to give the anhydrous salt.

FILE SEGMENT: CPI
FIELD AVAILABILITY: AB
MANUAL CODES: CPI: B02-C04

L54 ANSWER 10 OF 12 WPIX COPYRIGHT 2005 THE THOMSON CORP on STN
ACCESSION NUMBER: 1973-60818U [41] WPIX
TITLE: **Dried foods** - by extracting moisture from frozen food with ethanol.
DERWENT CLASS: D13
PATENT ASSIGNEE(S): (UNIL) UNILEVER NV
COUNTRY COUNT: 10
PATENT INFORMATION:

PATENT NO	KIND	DATE	WEEK	LA	PG	MAIN IPC
NL 7303765	A		(197341)*			
BE 796930	A		(197341)			
DE 2312146	A		(197346)			
FR 2176829	A		(197401)			
ZA 7301770	A	19731219	(197411)			
CH 547061	A	19740329	(197417)			
GB 1379314	A	19750102	(197501)			
US 3925903	A	19751216	(197552)			
CA 989243	A	19760518	(197623)			
JP 51045659	B	19761203	(197701)			

PRIORITY APPLN. INFO: GB 1972-12615 19720317
INT. PATENT CLASSIF.: A23B001-04; A23B003-04; A23B004-04; A23B007-12; A23L003-36; **B01D012-00**
BASIC ABSTRACT:
NL 7303765 A UPAB: 19930831
Dried foods are made by immersing frozen food (especially at -20 degrees to -5 degrees C) in ethanol to remove water from the interior by dissolution in the ethanol, and maintaining the temperature of the food/ethanol mixture between -20 degrees C and 0 degree C until at least half the moisture has been extracted from the food. Pref. the food (e.g. raw or cooked meat, fish, vegetables or fruit) is immersed in ethanol or ethanol/water (especially 'rectified spirit') in the frozen state and held at -20 degrees C-0 degree C until equilibrium is reached, generally at 20-30% moisture content. The food can then be drained and immersed in fresh ethanol for further drying as required. At the end of the ethanol treatment the food may be dried to **remove** residual **ethanol** in an **air** stream. The process gives dried foods with an open structure and non-shrunken appearance, which reconstitute as well as freeze-dried foods, but the process is less costly than freeze drying.
FILE SEGMENT: CPI
FIELD AVAILABILITY: AB
MANUAL CODES: CPI: D03-H01L

=> d ibib ed ab hitind 11-
'HITIND' IS NOT A VALID FORMAT
In a multifile environment, a format can only be used if it is valid

in at least one of the files. Refer to file specific help messages or the STNGUIDE file for information on formats available in individual files.
REENTER DISPLAY FORMAT FOR ALL FILES (FILEDEFAULT):ibib ed ab kwic
YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N):y

L54 ANSWER 11 OF 12 PASCAL COPYRIGHT 2005 INIST-CNRS. ALL RIGHTS RESERVED. on STN
ACCESSION NUMBER: 1999-0004077 PASCAL
COPYRIGHT NOTICE: Copyright .COPYRGT. 1999 INIST-CNRS. All rights reserved.
TITLE (IN ENGLISH): Thermal behaviour of anhydrous, dihydrate and (2/1) ethanol forms of 1-O-α-D-glucopyranosyl-D-mannitol
AUTHOR: PERKKALAINEN P.; HALTTUNEN H.; PITKAENEN I.
CORPORATE SOURCE: University of Jyvaeskylae, Department of Chemistry, P.O. Box 45, 40351 Jyvaeskylae, Finland
SOURCE: Thermochimica acta, (1998), 320(1-2), 215-221, 7 refs.
ISSN: 0040-6031 CODEN: THACAS
DOCUMENT TYPE: Journal
BIBLIOGRAPHIC LEVEL: Analytic
COUNTRY: Netherlands
LANGUAGE: English
AVAILABILITY: INIST-14753, 354000071610200260
UP 20001101
AB The melting points of anhydrous 1-O-α-D-glucopyranosyl-D-mannitol, 1-O-α-D-glucopyranosyl-D-mannitol dihydrate and a new compound. 1-O-α-D-glucopyranosyl-D-mannitol-ethanol (2/1) were determined using differential scanning calorimetry. The melting onset values were 169.2 (3), 104.3 (18) and 158.7 (9). respectively, and the melting peak values were 171.4 (5), 107.9 (15) and 160.1 (6), respectively. 1-O-α-D-glucopyranosyl-D-mannitol dihydrate and 1-O-α-D-glucopyranosyl-D-mannitol-ethanol (2/1) decompose to anhydrous form when heated at slow heating rates. According to TG-FTIR measurements, 1-O-α-D-glucopyranosyl-D-mannitol-ethanol (2/1) lost its ethanol in the 110-190°C range, and 1-O-α-D-glucopyranosyl-D-mannitol dihydrate lost its **crystal** water in the 60-210°C range. After **removal** of **ethanol** and **crystal** water, both decomposed in **air** totally as carbohydrates usually do, forming lower hydrocarbons with OH-groups, CO.sub.2 and H.sub.2O.
AB . . . heating rates. According to TG-FTIR measurements, 1-O-α-D-glucopyranosyl-D-mannitol-ethanol (2/1) lost its ethanol in the 110-190°C range, and 1-O-α-D-glucopyranosyl-D-mannitol dihydrate lost its **crystal** water in the 60-210°C range. After **removal** of **ethanol** and **crystal** water, both decomposed in **air** totally as carbohydrates usually do, forming lower hydrocarbons with OH-groups, CO.sub.2 and H.sub.2O.

L54 ANSWER 12 OF 12 SCISEARCH COPYRIGHT (c) 2005 The Thomson Corporation on STN
ACCESSION NUMBER: 1994:377595 SCISEARCH
THE GENUINE ARTICLE: NE102
TITLE: SYNTHESIS, STRUCTURE, AND ELECTRONIC-PROPERTIES OF A MIXED-VALENT DODECAIRON OXO COMPLEX, A MODEL FOR THE BIOMINERALIZATION OF FERRITIN
AUTHOR: TAFT K L (Reprint); PAPAEFTHYMIOU G C; LIPPARD S J
CORPORATE SOURCE: MIT, DEPT CHEM, CAMBRIDGE, MA 02139; MIT, FRANCIS BITTER NATL MAGNET LAB, CAMBRIDGE, MA 02139
COUNTRY OF AUTHOR: USA

SOURCE: INORGANIC CHEMISTRY, (30 MAR 1994) Vol. 33, No. 7, pp. 1510-1520.
ISSN: 0020-1669.
PUBLISHER: AMER CHEMICAL SOC, 1155 16TH ST, NW, WASHINGTON, DC 20036.
DOCUMENT TYPE: Article; Journal
FILE SEGMENT: PHYS
LANGUAGE: English
REFERENCE COUNT: 109
ENTRY DATE: Entered STN: 1994
Last Updated on STN: 1994

ABSTRACT IS AVAILABLE IN THE ALL AND IALL FORMATS

ED Entered STN: 1994
Last Updated on STN: 1994

AB The mixed-valent polyiron oxo complex [FeIII4FeIIs(O)2(OMe)18(OAc)6(MeOH)4.67] (1) was prepared through the controlled oxidation of a methanol solution of ferrous acetate and lithium methoxide. The structure of 1, revealed in a single-crystal X-ray diffraction experiment, consists of a face-centered cubic array of oxygen atoms with iron(II) and iron(III) ions in the octahedral interstices. Two mu6-OXO ligands, to which ten of the twelve iron atoms are coordinated, form the core of the structure. The iron atoms have distorted octahedral coordination geometries with oxo, methoxide, methanol, and acetate ligands. From an analysis of the Fe-O bond lengths and from charge considerations, four of the twelve iron atoms were assigned as ferric ions. **Crystals** of 1 are **air**-sensitive and lose coordinated **methanol** when **removed** from the reaction solution. The mixed-valent nature of 1 was further characterized by electronic spectroscopy. There is a broad feature at 694 nm with shoulders at 900 and 1250 nm attributable to iron(II) ligand field and intervalence charge transfer transitions. The iron atoms of 1 exhibit overall antiferromagnetic exchange coupling, with chi(T) decreasing from 40.3 emu mol-1 K at 300 K to 7.04 emu mol-1 K at 2.5 K. The calculated spin-only chi(T) value for four iron(III) ions with g = 2.0 and eight iron(II) ions with g = 2.2 is 46.5 emu mol-1 K. No saturation was observed in a high-field magnetization study of 1 at 1.4 K, the maximum value attained being 18.2 mu(B) at 20.0 T. Mossbauer spectral studies of 1 at 20 K revealed three distinguishable quadrupolar doublets, one with spectral parameters characteristic of iron(III) (delta = 0.47 and DELTAE(Q) = 0.74 mm s-1) and two quadrupolar resonances arising from iron(II) ions (delta = 1.28 and 1.29 and DELTAE(Q) = 2.02 and 3.29 mm s-1, respectively). The relative absorption areas for the three spectral features were consistent with the foregoing assignment of oxidation states. No valence delocalization was observed for 1 up to 250 K. Below 20 K, intermediate relaxation phenomena were evident for all three quadrupole doublets. The temperature dependence of the Mossbauer spectra was consistent with superparamagnetism, such as that observed for the mineral core of the iron storage protein ferritin. The exact source of the slow spin relaxation in 1 has proved difficult to identify unequivocally, however. The method used to prepare 1, oxidation of iron(II), and its structure, a Lattice array of oxygen and iron atoms, compare favorably with the biomineralization process and structure of the mineral core in ferritin, respectively. Crystallographic data for 1 at 185 K are as follows: P1BAR, a = 11.868(2) angstrom, b = 13.309(2) angstrom, c = 10.437(2) angstrom, alpha = 100.96(2)degrees, beta = 95.30(2)degrees, gamma = 80.07(1)degrees, V = 1591.2(5) angstrom3, Z = 1, M(r) = 1764.67, rho(calc) = 1.841 g cm-3. For 4709 unique observed reflections collected at 185 K with F2 > 3sigma(F2), R = 0.054 and R(w) = 0.071.

AB . . . of the Fe-O bond lengths and from charge considerations, four of the twelve iron atoms were assigned as ferric ions. **Crystals** of 1 are **air**-sensitive and lose coordinated **methanol**

when **removed** from the reaction solution. The mixed-valent nature of 1 was further characterized by electronic spectroscopy. There is a broad feature. . .

```
=> file stnguide
FILE 'STNGUIDE' ENTERED AT 07:54:58 ON 22 AUG 2005
USE IS SUBJECT TO THE TERMS OF YOUR CUSTOMER AGREEMENT
COPYRIGHT (C) 2005 AMERICAN CHEMICAL SOCIETY, JAPAN SCIENCE
AND TECHNOLOGY CORPORATION, AND FACHINFORMATIONSZENTRUM KARLSRUHE

FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Aug 12, 2005 (20050812/UP).

=>
```